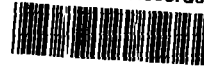


From: Sirtaj Ahmed
Date: August 31, 1998
Subject: Minutes of Meeting
Reference: Granville Solvents Site

EPA Region 5 Records Ctr.



379571

A meeting, at the request of Gerald Myers of Metcalf & Eddy consultant for Granville Solvents, was held at their office in Columbus, Ohio, on August 28, 1998. The meeting started at 11:40 A.M. and was adjourned at 2:30 P.M.. The meeting was held to discuss EE/CA (Revision 1) and Groundwater Flow and Contaminant Fate and Transport Model (Revision 1) submittals of July 1998.

The meeting was attended by Sirtaj Ahmed (RPM) and Luanne Vanderpool (Geologist) of USEPA, Fred Myers and Timothy Christman of Ohio EPA, Ben Pfefferle et al of PRP, and Gerry Myers et al of Metclaf & Eddy (consultant to the PRP). For list of names see the attached sheet.

The meeting was technical in nature. No legal issues were discussed. Gerry Myers gave the presentation in regards to the current condition of the site. He described both the reports. Ben inquired about approval of the EE/CA.

Sirtaj asked if the proposed remedy in EE/CA met all federal and state ARARs for soil cleanup and suggested that federal and state ARARs be included in the appendices. Ben agreed to do so and a letter in this respect will be issued to USEPA by September 11, 1998. Sirtaj said that he would respond to the EE/CA approval issue after reviewing their letter. A schedule for the removal action is presented in the attached table 3.5 from the EE/CA document.

PRPs were reminded that it was an interim status site and RCRA ARARS may apply. Ben said that they were not in a position to do RCRA assessment but will find a mechanism and will address this issue.

Table 1 from the EE/CA, Summary of Applicable Remediation Standards was distributed and discussed. Vanderpool questioned the distinction of the "Soil to Groundwater PRG" column and the "Soil Remediation Goal" column. Clarification was given.

Vanderpool and Christman (OEPA) questioned calculation of the source terms in the transport model. Explanations were given by Jim Peeples (OEPA).

cc: Bill Bolen
Luanne Vanderpool
Mike Anastasio

grain0828

TABLE 3-1
SOIL TREATMENT GOALS FOR
THE GRANVILLE SOLVENTS SITE

Chemical of Concern	Maximum Concentration Detected in Soil (mg/Kg)	Applicable Soil Standard (Soil Treatment Goal) (mg/Kg)
1,1,1-trichloroethane	1.7	147.81
1,1,2-trichloroethane	0.012	4
1,2-dichloroethane	0.011	59.22
1,1-dichloroethene	0.007	0.0274
cis-1,2-dichloroethene	4.6	48.85
trans-1,2-dichloroethene	0.021	94.74
2-butanone	0.014	360
acetone	0.084	139
benzene	0.014	3
carbon disulfide	0.7	4
chlorobenzene	0.027	66
chloroform	0.002	62
ethylbenzene	3.6	320.59
methylene chloride	0.002	1.6
tetrachloroethene	18	5.53
toluene	0.34	725.20
trichloroethene	11	6.67
vinyl chloride	0.03	0.44
xylene (total)	44	907.00

3.5 DETERMINATION OF REMOVAL ACTION SCHEDULE

The proposed schedule for the removal action is presented on the following table¹.

Activity	Number of Calendar Days Following Completion of Previous Activity
1. Submit EE/CA	0
2. Meet with U.S. EPA	30
3. Submit Final EE/CA After Receipt of Comments	30
4. Receive Final Approval	30
5. Public Meeting	30
6. Respond to Public Comments	30
7. Notice to Proceed to Construction	14
8. Commence Construction	TBD
9. Commence Operation	TBD
10. Removal Action Completion	TBD

¹ Subject to weather, equipment availability, and other *force majeure* events.

TABLE 1. SUMMARY OF APPLICABLE REMEDIATION STANDARDS

Chemical of Concern ⁽¹⁾	Maximum Concentration detected in Soil ⁽²⁾ (mg/Kg)	Direct Contact Soil Standard Excavation Worker ⁽³⁾ (mg/Kg)	Groundwater MCL (mg/L)	Groundwater Risk Based MCL (calculated) (mg/L)	Soil to Groundwater PRG (mg/Kg)	Soil Remediation Goal (modeled) (mg/Kg)	Applicable Soil Standard (Remediation Goal) (mg/Kg)
1,1,1-trichloroethane	1.7	463000	200		0.9	147.81	147.81
1,1,2-trichloroethane	0.012	(4)	6		(4)	4	4
1,1-dichloroethane	0.011	618000	(5)	8.1	11	59.22	59.22
1,1-dichloroethene	0.007	3.43	0.007		0.03	2.74	0.0274
cis-1,2-dichloroethene	4.6	94200	0.07		0.2	48.85	48.85
trans-1,2-dichloroethene	0.021	292000	1		0.3	94.74	94.74
2-butanone	0.014	186000	(5)	1.9	0.517	360	360
acetone	0.084	942000	(5)	0.61	8	139	139
benzene	0.014	141	0.005		0.02	3	3
carbon disulfide	0.7	5840	(5)	14	14	4	4
chlorobenzene	0.027	(4)	(5)	39	(4)	66	66
chloroform	0.002	51.1	(5)	0.1	0.3	62	62
ethylbenzene	3.6	572000	0.7		5	320.59	320.59
methylene chloride	0.002	(4)	0.0041		(4)	1.6	1.6
tetrachloroethene	18	1520	0.005		0.04	5.53	5.53
toluene	0.34	780000	1		5	725.20	725.20
trichloroethene	11	673	0.005		0.02	6.93	6.93
vinyl chloride	0.03	12.7	0.002		0.01	0.44	0.44
xylene (total)	44	603000	10		74	907.00	907.00
Risk -Excavation Worker	2.70E-08					4.66E-06	1.00E-07
Risk -Commercial	8.40E-06					9.65E-04	2.00E-05
1. Chemicals of Concern were identified in the EE/CA, May, 1996.							
2. Reported in the Soil Data Report, September, 1996.							
3. Based on the Design Technical Memorandum, August 31, 1995							
4. These compounds had not been detected prior to the development of the Design Technical Memorandum and no PRG was developed.							
5. MCLs have not been developed for these compounds. MCLs were calculated using standard EPA methods							

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